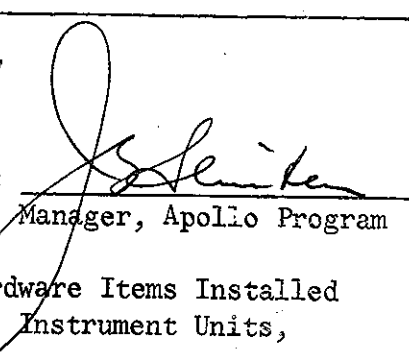


DATE: 16 February 1967

KSC APOLLO PROGRAM DIRECTIVE NO. 7

TO : Distribution

FROM: 
Manager, Apollo Program

SUBJECT: Control and Documentation of All Non-Flight Hardware Items Installed on Up-rated Saturn I and Saturn V Flight Stages, Instrument Units, Spacecraft and Active GSE

I. PURPOSE

This directive establishes the responsibilities and procedures for controlling and documenting the installation and removal of all non-flight hardware on the S-I/V stages, instrument units, spacecraft and active GSE during the period from KSC receiving inspection through launch operations.

II. SCOPE

This directive applies to all Up-rated Saturn I and Saturn V Flight Stages, Instrument Units, Spacecraft, and active GSE.

III. REFERENCE

- A. Procedure for Certification of Flight Worthiness, I-I/IB/V-TD 100 dated March 16, 1966.
- B. MSFC Program Directive Number I/IB-T-I-5 dated March 28, 1966.
- C. MSFC Saturn V Program Directive (number to be assigned).
- D. Apollo Pre-Flight Operations Procedure, T-503, dated April 20, 1966.

IV. RESPONSIBILITIES

- A. The cognizant Directors will be responsible for establishing and implementing a control and documentation system in accordance with the general procedures shown in Paragraph V.

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- B. Each Director will assure that adequate control systems are established by the appropriate contractors in accordance with this Directive.
- C. The specified special streamers (launch vehicle and spacecraft), paints, and/or dyes will be provided for each stage by the appropriate contractor.

V. PROCEDURE

- A. The Responsible Director will assure that stage contractors originate, implement and maintain a system of recording (logging) all non-flight items (plastic caps, dummy hardware, dust covers, tape, etc.) installed on the flight stages, instrument units, spacecraft or active GSE, during all phases of pre-launch checkout. These non-flight items will also be tagged when installed in order to have a system of cross-check. Immediately upon removal of non-flight item from the stage, instrument unit, spacecraft or active GSE, the removal date will be recorded and the tag removed.
- B. This log and tag method will become a part of the stage, instrument unit, spacecraft, or active GSE data package through all applicable phases of operation including prelaunch checkout and launch at KSC/CKAFS.
- C. Upon completion of each phase of the above activity, the control log will be compared with the tags so that an accurate accounting of the installed non-flight hardware can be made. The log and tag cross-check will be accomplished at the completion of all major tests. The log will become a part of the data package for the stage, instrument unit, spacecraft or active GSE and will be continuously updated up until the time of launch.
- D. It will be the responsibility of each appropriate Quality Control Office or Inspection Office to insure that all non-flight test GSE is properly disconnected and removed immediately upon completion of all major tests. Reverification of this task will be performed during final inspection "walkdown" of the vehicle.

VI. DEFINITION

Streamer (Tag) Description and Identification. Streamer tags will be vinyl coated, nylon base material of orange/red stripe color. The material will be fade resistant

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for outside use, with one grommet centered near the top. Three-fourths-inch lettering, "NON-FLIGHT HARDWARE", will be printed in black lengthwise in two lines beginning on the grommet end, one side only. The opposite (blank) side of the streamer is to be used for serializing. The number appearing on a streamer will identify an organizational section and a serial number. Three streamer sizes will be available: 1" x 6", 1" x 12" and 3" x 24".

VII. EFFECTIVE DATE

This Directive is effective immediately.

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